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PLANS AND DEVELOPMENT STAFF

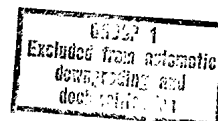
MONTHLY REPORT

MARCH 1964

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Assistant for Plans and Development

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DEVELOPMENT BRANCH ACTIVITY REPORT - MARCH 1964

I. PERFORMANCE DATA

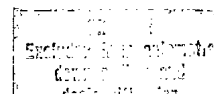
1. Personnel
 - Branch T. O.
 - On Duty
 - Hours annual leave
 - Hours sick leave
 - Hours voluntary overtime
2. Projects Initiated
 - Major (more than 40 man hours) - 0
 - Minor (less than 40 man hours) - 3
3. Projects in Work
 - Major - 74
 - Minor - 0
4. Projects Completed
 - Major - 0
 - Minor - 8
5. Proposals
 - Received - 12
 - Evaluated - 8
6. Memos and Letters Generated
 - Number of pages - 472
 - Total pieces w/copies - 1127
7. Forms Completed
 - Total pieces - 575
8. Copies Made
 - Xerox, Photostat, Ditto - 645
9. Research and Development Objectives
 - In Work - 4
 - Completed - 10
10. Trips
 - Number of trips - 36
 - Man days spent -
11. Maintenance and Repair
 - Number of man hours expended -
12. Individual Liaison Hours Expended
 - Contractor -
 - Government -

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13. Staff Studies
Completed - 6

14. Conferences

Number held - 14

Man hours expended -

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15. Current Contracts

Number - 38

Dollar Value -

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16. Obligations This Fiscal Year

Number - 23

Dollar Value -

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17. Obligations This Month

Number - 5

Dollar Value -

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18. Pending Obligations

Number - 6

Dollar Value -

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19. Personnel Actions - 1

Training - 1

Meetings - 0

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20. One contract was let during the month of March. This item went through the TDC on 22 August 1963 and was not contracted for until 2 March 1964.

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DEVELOPMENT BRANCH ACTIVITY REPORT - MARCH 1964

II. NARRATIVE SUMMARY.

Ten different development objectives were completed and delivered to industry with requests for proposals on the development of new exploitation equipment ranging from an Image-Intensifier Screen and Modulated Light Film-Viewers to improved models of the basic Roll-Film Viewers and a Dual-Viewing Microstereoscope. This achievement constitutes the fruition of months of staff work by Development Branch personnel which included in-house surveys, screening of technical capability in industry and liaison with the entire intelligence community. To fulfill the scope of our development program, the Staff has concentrated its full energies on procurement for the remainder of this Fiscal Year: the total of overtime volunteered by the technical staff and the reams of paperwork typed and handled by the secretarial staff attest to the extensive effort. Also, close cooperation from Logistics and speedy service from PSD/RPB strongly supported this achievement.

During this month, the Eastman Kodak AL-14 contract was reviewed from cover to cover. Some of the proposed projects were rejected by EKC as being outside their capability, a few were rejected at the proposal level by Development Branch monitors who could not justify the program-to-cost ratio. In the final analysis ~~attained~~, it was determined that approximately [] would be required to complete the work proposed under the current program. [] is in the process of preparing the formal justification for this extension of effort. It is scheduled for the 16 April Technical Development Committee Meeting.

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A large share of [] efforts this month were directed toward setting up specific requirements for the proposed Maintenance Branch. His work has included defining the space needed, the number and types of personnel, and the steps necessary to establish in-house maintenance as a functioning operation.

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[] services were lost for one week while he attended the eighty-third Management Course.

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DEVELOPMENT BRANCH ACTIVITY REPORT - MARCH 1964

III. TRIPS.

1. 2 March 1964, [REDACTED]

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Trip to Richardson Camera Company, Phoenix, Arizona, to monitor Film Viewer and Film Reader Contracts.

2. 2 March 1964, [REDACTED]

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Trip to Aeronutronics Corporation, Newport Beach, California, to inspect plant facilities and technical capabilities in the field of Automatic Image Registration.

3. 2 March 1964, [REDACTED]

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Trip to Bausch & Lomb, Incorporated, Rochester, N.Y., to discuss Dual Power Measuring Macroscopic, Models I & II of Projected Scale Micrometer, Glass Measuring Disks, Zoom Tube Magnifier and modifications to current Zoom 70 Model II.

4. 3 March 1964, [REDACTED]

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Trip to General Precision Librascope, Glendale, California, to monitor Richardson Contract #6325.

5. 3 March 1964, [REDACTED]

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Trip to Ling-Temco-Vought Research Center, Anaheim, Calif., to inspect plant facilities and technical capability in the field of Automatic PI.

6. 3 March 1964, [REDACTED]

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Trip to Hycon Manufacturing Company, Monrovia, California, to inspect residue of equipment from the terminated Electronic Rectifier Contract.

7. 3 March 1964, [REDACTED]

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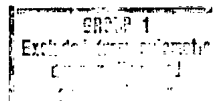
Trip to Cornell Aeronautical Laboratories, Buffalo, N.Y., to monitor current PERCEPTOR contract..

8. 4 March 1964, [REDACTED]

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Trip to Telecomputing Corporation, Data Instruments Division, N. Hollywood, California, to monitor Phasolver contract.

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9. 4 March 1964, [REDACTED]

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Trip to Consolidated Systems, Monrovia, California, to monitor viewing system contract and inspect facilities and capabilities.

10. 4 March 1964, [REDACTED]

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Trip to Itek Corporation (Western), Palo Alto, California, to discuss Night Light Pattern Study.

11. 4 March 1964, [REDACTED]

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Trip to FMA, Incorporated, El Segundo, California, to inspect Multi-Format Photo Interpretation Station.

12. 5 March 1964, [REDACTED]

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Trip to Litton Industries, San Carlos, California, to inspect plant facilities and technical capabilities.

13. 5 March 1964, [REDACTED]

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Trip to Itek Laboratories (Western), Palo Alto, California, to inspect plant facilities and technical capabilities.

14. 6 March 1964, [REDACTED]

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Trip to Ampex Corporation, Redwood, California, to discuss electronic image enhancement systems.

15. 6 March 1964, [REDACTED]

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Trip to Nuclear Research Instruments, Berkeley, California, to monitor Film Reader contract.

16. 6 March 1964, [REDACTED]

50X1

Trip to Boeing Aircraft Corporation, Seattle, Washington, to discuss automatic PI system and Spectral Zonagraph camera.

17. 9 - 10 March 1964, [REDACTED]

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Trip to Houston-Fearless Corporation, Los Angeles, Calif., to monitor contracts and coordinate details of proposed processor research program and review proposed development of HTA/6 Processor.

18. 10 March 1964, [REDACTED]

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Trip to Budd Electronics Corporation, Long Island, N.Y., to monitor progress on Electronic Manipulation Viewer.

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19. 11 March 1964, [redacted] 50X1
Trip to [redacted] to negotiate acceptance of HTA/5 Film Processor. 50X1
20. 12 - 13 March 1964, [redacted] 50X1
Trip to [redacted], Los Angeles, Calif., to monitor contracts and review USAF Controllable Development Processor. 50X1
21. 13 March 1964, [redacted] 50X1
Trip to Optomechanisms, Incorporated, Plainview, L.I., N.Y., to monitor Point Transfer Device and associated viewers. Main items for discussion were the control panel layout and digitizing system.
22. 16 March 1964, [redacted] 50X1
Trip to Eastman Kodak Company, Rochester, New York, to review contract progress and for demonstration of Stereo Projection Viewer.
23. 17 March 1964, [redacted] 50X1
Trip to Bausch & Lomb, Incorporated, Rochester, N.Y., to monitor and discuss contracts or proposed contracts on Dual Power Measuring Macroscopic, Projected Scale Micrometer, Zoom Magnifier Versatile Stereoscope and modifications to Zoom 70 Model II.
- Trip to Elgeet Optical Company, Rochester, N.Y., to investigate possibility of their building a stereo version of their monoscopic scope.
24. 17 March 1964, [redacted] 50X1
Trip to Baker Company, Biddeford, Maine, to discuss clean-room enclosures.
25. 17 March 1964, [redacted] 50X1
Trip to Gilliland Instrument Company, Berkeley, Calif., to begin test procedures on Stellar Comparator.
26. 18 March 1964, [redacted] 50X1
Trip to Robert Crandall Associates, New York, N.Y., to discuss electro-color printing process.
27. 18 - 19 March 1964, [redacted] 50X1
Trip to Engineer Sciences Division of Stanford Research Instruments, Menlo Park, Calif., to investigate electro-static labeling techniques.

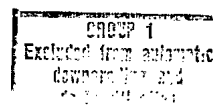
28. 19 March 1964, [REDACTED] 50X1
Trip to Minnesota Mining and Manufacturing Company, Minneapolis, Minnesota, to discuss black and white and color processes.
29. 20 March 1964, [REDACTED] 50X1
Trip to [REDACTED] to become acquainted with personnel and procedures. 50X1
30. 24 March 1964, [REDACTED] 50X1
Trip to Link Division, GPL, Binghamton, N.Y., to discuss developments in viewers and comparators.
31. 25 March 1964, [REDACTED] 50X1
Trip to General Electric Advanced Technology Lab., Schenectady, N.Y., to discuss Image Intensifier Screens.
32. 25 March 1964, [REDACTED] 50X1
Trip to Rome Air Development Center, Griffiss AFB, concerning the latest developments in their interest in image integration.
33. 25 March 1964, [REDACTED] 50X1
Trip to General Electric Advanced Technology Lab, Schenectady, N.Y., to review unconventional photographic systems.
34. 26 March 1964, [REDACTED] 50X1
Trip to Horizons, Incorporated, Cleveland, Ohio, to evaluate dry photographic reproduction systems.
35. 26 March 1964, [REDACTED] 50X1
Trip to Cornell Aeronautical Laboratories, Buffalo, N.Y., concerning the Microdensitometer capability and Data Interpretation Study which has just begun.
36. 31 March 1964, [REDACTED] 50X1
Trip to Bausch & Lomb, Incorporated, Rochester, N.Y., to provide technical assistance during final contractual negotiations on four pending contracts.

DEVELOPMENT BRANCH ACTIVITY REPORT - MARCH 1964

IV. CONFERENCES.

1. 4 March 1964. [] attended a film on lasers and Eastman Kodak film development experiment. 50X1
2. 4 March 1964. [] met with representatives from Navy PIC and Optomechanisms to discuss ramifications of the High Performance Stereo-viewer development. 50X1
3. 5 March 1964. [] met with [] of AF Base Systems Division for a briefing on Stellar Index Package. 50X1
50X1
50X1
4. 5 March 1964. [] met with [] of Budd Electronics regarding possible development of a new type of TV presentation. 50X1
5. 5 March 1964. [] discussed possible digitizing of the Stereo Point Transfer Device with [] of TAB, TID. 50X1
50X1
50X1
6. 11 March 1964. [] met with Security and Cover personnel to reexamine cover problems facing P&DS and attempt to find solutions. 50X1
7. 11 March 1964. [] previewed some of the pertinent aspects of the development program for [] of Aeroflex Labs, Incorporated. 50X1
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8. 12 March 1964. [] met with [] concerning the Image Integration Study. 50X1
50X1
9. 12 March 1964. [] were given a technical capability briefing related to the Automatic Image Identification field by [] of Tasker Instrument Company. 50X1
50X1
10. 16 - 20 March 1964. Members of the Development Branch discussed current contracts and anticipated developments with [] our technical representative on the West Coast. 50X1
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11. 17 March 1964. [] met for a conference with the Image Enhancement Working Group. 50X1

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12. 24 March 1964. [] attended a conference at the Bureau of Naval Weapons for a Lockheed presentation on Twin Pod Photo Reconnaissance System.

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13. 24 March 1964. [] attended an Air Force briefing on Spectral Filtration.

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14. 26 March 1964. [] held a telephone conference with [] University of Rochester, to discuss the feasibility of changing the scope of his contract to include monochromatic lens design, compilation of a lens evaluation manual and consultation services.

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7 April 1964

PLANS BRANCH, Plans and Development Staff
Progress Report for March 1964Branch T/O
On Duty

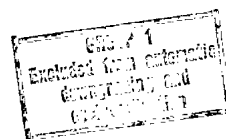
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Major Activities and Accomplishments

1. Set up in-house machinery for coordination of dissemination of information on new acquisition systems.
2. Obtained briefing and examined test results of Itek Vidya concerning the Vela Program.
3. Received a briefing on the Air Force Spectral Zone Filtration System techniques for producing ground images and obtained offer of a film for testing by NPIC when more significant achievements are made.
4. Met with representatives of NRO on several occasions concerning the development of new systems.
5. Attended briefing by Hughes Aircraft representatives concerning a system for surveying Soviet Space Craft. NPIC may be asked to evaluate some of the photographic aspects of the system.
6. Attended a scheduled SETD meeting and informed affected Center personnel of the proceedings.
7. Prepared an evaluation of an ADP directory of R & D activities as requested by the Bureau of the Budget. (agency reply was prepared by the Assistant Director for Computer Services).
8. Wrote and circulated a draft staff study proposing a Center committee for computer use evaluation
9. Assisted Development Branch Chief in evaluation of staff management activities.
10. Gathered data for a staff study evaluation of objectives and functions of the Technical Development Committee and the Joint Procurement Committee.
11. A member attended a symposium on statistical and associative techniques for document retrieval.
12. was on jury duty during most of the month.

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Exploratory Development Laboratory Branch
Activity Report for March 1964

Branch T/O

On Duty

Volunteer Overtime - 5 hours

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A report on the laboratory's sensitometric processing facilities and equipment was completed. The Herrnfeld Sensitometer was found to be suitable, with some modification. The Data Corporation Processor was found to be quite reproducible, but impractical for sensitometrically processing lengths of roll film. Consideration is now being given to development of a more suitable processor.

The optics belonging to the Spatial Filtering Image Viewer were delivered during the month, but time has not been available to fully align and calibrate the instrument. It is not anticipated that the equipment will be operational much before the middle of May.

The clean area was prepared for clean operation during the month. The three labs contained in room 4N906 must now be used only after processing through the air-bath. No special clothing is being required for the present, since it is not known whether such will be necessary. Equipment for measurement of vibration was received and is currently being tested and calibrated. This will provide a measurement capability in support of equipment shock-and vibration-isolation. An Abbe Refractometer was also procured and will be used chiefly for measurement of indices of refraction of liquids.

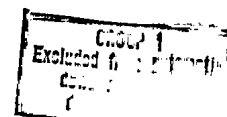
Ten and one-half man-days were spent on trips by members of this branch. They were distributed as follows:

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Accompanied [] to General Electric at Schnectady, New York to discuss photopolymerization system, on the 24th of March. On the 25th and 26th of March, [] visited Horizon's Inc., in Cleveland, Ohio to discuss their photo-polymerization techniques. This trip was entirely in support of the Development Branch's activities. (3 days)

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Subject: Progress Report for Exploratory Development Lab.

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[REDACTED]

Accompanied [REDACTED] to the Richardson Camera Co., in Phoenix, Arizona on 1 - 3 March, to discuss the design of the new viewer. This trip was in support of the Development Branch's activities. (2½ days)

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[REDACTED]

Visited Diffraction Limited, Technical Operations, Inc., and Itek Corporation, all of Massachusetts on matters of technical nature, primarily concerned with EDL Branch problems. With [REDACTED] visited Consolidated Systems and Aeronutronics in the Los Angeles area on Development Branch interests. Visited Visibility laboratory of Scripps Institute with [REDACTED] at the request of Optics Panel of the [REDACTED] Committee. (5 days)

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